

Tom GND presentation:

Planetary boundaries, Civilian conservation corps, and recommended further reading

Planetary Boundaries:

Nine key boundaries that cannot be breached without serious danger:

Stratospheric ozone depletion (although ozone recovering due to Montreal protocol),

Biodiversity loss,

Chemical pollution,

Climate change,

Ocean acidification (driven in part by carbon build up from climate change),

Freshwater consumption (animal agriculture predominant user),

Land system change (predominantly from agriculture specifically animal/factory farming, e.g. destruction of wetlands to grow crops to feed cattle),

Nitrogen and phosphorous flows to biosphere and ocean (again partly a result of animal agriculture),

Atmospheric aerosols (Droplets forming in atmosphere)

“Anyone who believes that exponential growth can go on forever in a finite world is either a madman or an economist.”- Kenneth E. Boulding, economist

<https://www.stockholmresilience.org/research/planetary-boundaries/planetary-boundaries/about-the-research/the-nine-planetary-boundaries.html>

Recommended reading – Kate Raworth, ‘Donut Economics’,

George Monbiot: <https://www.monbiot.com/>

Centre for the advancement of a steady state economy:

<https://steadystate.org/>

Civilian Conservation Corps:

Program ran from 1933 – 1942 – 275,000 men signed up during the first ninety days of enrolment

A new version of the program could be modelled on the armed forces, with a variety of positions and qualifications, to suit young people starting out or professionals looking to expand in the field; could provide a strong basis for poverty alleviation

Difficult to implement in current system, with precariousness of current work and ‘jobs for life’ disappearing, and increasingly rent – seeking economy

Important to note that original project was undertaken during the Great Depression – lack of money is not the problem, lack of political will is – also key to wider ecological issues

Related projects: Organoponicos in Cuba:

[https://kclpure.kcl.ac.uk/portal/files/68706392/\\_AHUM\\_CEDERLOF\\_postprint.pdf](https://kclpure.kcl.ac.uk/portal/files/68706392/_AHUM_CEDERLOF_postprint.pdf)

(Peer reviewed research from Kings College discussing the initiatives taken during the Cuban Special Period when trade was ended with the collapse of the Soviet Union)

Reforestation efforts in Pakistan:

<https://www.weforum.org/agenda/2018/07/pakistan-s-billion-tree-tsunami-is-astonishing/> (Note employment for local people and women)

Related USA program under Biden administration: Climate Corps,  
<https://www.climatecorps.org/mission.html> (More small scale and specialised but can be seen as a spiritual successor)

Increased public interest in successors to CCC – recent Sunrise Movement campaign calling for Federal jobs guarantee for green jobs

<https://www.sunrisemovement.org/campaign/good-jobs-for-all/>

Opinion piece on Climate Corps:

<https://www.optimistdaily.com/2021/02/america-will-have-a-climate-corps-once-more-thanks-to-new-executive-order/>

Recommended reading:

Enough is enough: Building a sustainable economy in a world of finite resources, Rob Dietz and Dan O' Neill – more detail on CCC, as well as planetary boundaries

Climate solutions, listed by effectiveness: <https://www.drawdown.org/>